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From the INTERNATIONAL SEARCHING AUT	HORITY	KATION TRE	ATY
To: Patentbyrån Y Wallengren AB Box 116		PCT	
331 21 VÄRNAMO SVERIGE		WR: INTERNATIO	ITTEN OPINION OF THE ONAL SEARCHING AUTHORITY
•			(PCT Rule 43bis.1)
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1112/PCT		FOR FURTHER A	See paragraph 2 below
PCT/SE2004/001855	International filing date 14.12.2004		Priority date (day/month/year) 17.12.2003
International Patent Classification (IPC) o	or both national classific	ation and IPC	
B30B 15/06, B30B 1/32			
Applicant	_		
Automation Presses To	oling AP&T A	AB et al	
1. This opinion contains indications color			
1. This opinion contains indications related Box No. I Basis of the opin		ms;	
	ion		
Box No. III Non-establishme	nt of opinion with regar	rd to novelty, inventiv	c step and industrial applicability
Box No. IV Lack of unity of	invention		
Box No. V Reasoned statement applicability; cita	ent under Rule 43 <i>bis.</i> 1( tions and explanations	a)(i) with regard to no supporting such states	velty, inventive step or industrial
Box No. VI Certain documen	ts cited	11 B and a date	
Box No. VII Certain defects in	the international applic	2ation	
Box No. VIII Certain observation			
2. FURTHER ACTION			
If a demand for international preliminar International Preliminary Examining At Authority other than this one to be IPE written opinions of this International Se If this opinion is, as provided above, con	A and the chosen IPEA arching Authority will a sidered to be a unitary	has notified the Internation be so considered.	ply where the applicant chooses an ational Bureau under Rule 66.1 bis(b) that
of Form PCT/ISA/220 or before the exp For further opinions, see Form PCT/ISA	iration of 22 months fro	nents, before the expirence on the priority date, w	the applicant is invited to submit to the attorn of 3 months from the date of mailing whichever expires later.
3. For further details, see notes to Form PC	T/ISA/220.		
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WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

Box No. I	Basis of this opinion	PCT/SE2004/001855
1. With rega		
		d on the basis of the international application in the language is
·	his opinion has been established on the basis of a trans- , which is the language of a translation furnited 23.1(b)).	slation from the original language into the following language shed for the purposes of international search (under Rules 12
•	20.1(0)).	
		isclosed in the international application and necessary to the
a type of	f material	
	a sequence listing table(s) related to the sequence listing	
b. format o		
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	in computer readable form	
c. time of	filing/furnishing	
	contained in the international application as filed.	
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· Ir	addition, in the case that more than one version or o	constrate a series and series are series and series and series and series are series are series and series are series are series are series are
th	nat in the application as filed or does not go beyond the	copy of a sequence listing and/or table relating thereto has been promation in the subsequent or additional copies is identical to be application as filed, as appropriate, were furnished.
Additional of	comments:	
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### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, invense applicability; citations and explanations supporting such statement			CT/SE2004/001855 Inventive step or industrial
1. Statement				
Novelty	(N)	Claims	1-11	YES
		Claims	12	NO
Inventive step (IS)	Claims		YES	
		Claims	1-12	NO NO
Industrial applicability (IA)	Claims	1-12	YES	
	Claims		NO	

2. Citations and explanations:

### Most relevant documents cited in the International Search Report

D1: US 2003188643 A1 D2: DE 10043030 A1 D3: DE 1703297 A1 D4: DE 19937694 A1

### Explanation

The invention relates to an apparatus for compensating for such deformations as occur on operation in first and second clamping surfaces intended for a tool in a press. invention also relates to a method for compensating for stress deformations in work surfaces in a press apparatus. The object of the present invention is to realise an apparatus which is flexible and which can compensate for deformations by bulging outwards and thereby realising a compensation for deformations so that a more uniform compression depth is attained in a tool which is placed in a press in which the present invention has been disposed.

D1 (see paragraphs [0035]-[0044] and figs. 1-4, 6 and 7) discloses a press with a pressure compensating device. The press comprises an upper press platen 16 which is vertically movable and a lower fixed press platen 17. A pressure plate 15 (corresponding to a tool part in the application) is mounted on each pressure platen 16,17 via a pressure compensating hydraulic cushion 1 (corresponding to the power unit in the application). The hydraulic cushion 1 is

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Supplemental Box

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Continuation of: Box V

constructed from an upper cover 2, a lower cover 3 and a lateral edge closure 4 which together surround a pressure-tight inner space 5 filled with a hydraulic medium. The edge closure may be a metal sheet of U-shaped cross section and be welded to the upper 2 and lower 3 parts. The U-shaped part of the edge closure can be said to form a groove (see e.g. fig. 7). As is evident from figs. 2-4 the upper and lower parts 2,3 can be separated by providing the space 5 with a hydraulic medium through a hole in the upper part 2.

D2 (see paragraphs [0004] and [0005] and fig. 2) discloses a press that comprises a device for optimal pressure distribution, which is achieved by several plungers 13 and cylinders 14 mounted between a ram 3 and a press plate 5.

D3 (see page 7, last paragraph-page 9, first paragraph and figs. 1 and 2) discloses a press with plungers 10 for achieving even pressure distribution.

D4 discloses a further example of a press with a device for achieving even pressure distribution. The device is arranged on a lower platen 5. According to one embodiment (see fig. 2) the platen is provided with space 11 where a pressure distribution plate 10 is received. The plate 10 is covered with a membrane which is welded to the platen 5. A press plate 8 is mounted above the membrane. According to an alternative embodiment (see column 2, lines 38-42) the plate 10 may be surrounded by a steel frame. The steel frame and the membrane can be fastened to the plate by screwing or welding.

### Claim 12

The method according to independent claim 12 is considered known from either of D1-D4 and therefore lacks novelty.

### Claim 1

The apparatus according to claim 1 appears to differ from D1 in that both clamping surfaces mentioned in claim 1 are movable. In D1 only one of the corresponding surfaces are movable. However, it appears obvious to the person skilled

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International application No.

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### Supplemental Box

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in the art to realise that also the lower press platen 17 can be made movable.

Furthermore, it is questioned in what way the clamping surfaces in claim 1 defines the invented apparatus (20) for compensating deformations. As is apparent from the application the invented apparatus (20) is a part of a press and this part is shown, e.g., in fig. 5 in the application.

Having regard to the arguments above the apparatus according to claim 1 lacks at least inventive step over D1.

The apparatus according to claim 1 is also considered to lack inventive step over either of D2-D4.

### Claims 2-11

The apparatus according to the wording of claims 2-11 is considered obvious to the person skilled in the art and therefore lacks inventive step.

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International application No.

PCT/SE2004/001855

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawing or on the question whether the claim are fully supported by the description, are made:

Claim 12

Claim 12 does not appear to be clear and concise and therefore contradicts PCT Article 6.

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